



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

Canada

The background of the slide features a horizontal landscape photograph of a vibrant yellow field under a blue sky with light clouds. A large, detailed red maple leaf is positioned on the left side, partially overlapping the field and the title text.

Agroclimate Impact Reporter

Trevor Hadwen & Shira Gerstein

*Agriculture and Agri-Food Canada
National Agroclimate Information Service
Regina, Saskatchewan, Canada*

*North American Drought Monitor Forum
Calgary, Alberta, May 1-3, 2018*

An Overview of AIR

- The Agroclimate Impact Reporter (AIR) is a publically available online survey tool that collects information from a growing network of volunteer producers across Canada. It asks about the impact of weather and climate on their farm.
- The survey results are mapped and posted on the Drought Watch website (www.agr.gc.ca/air) providing a series of agroclimate impact maps each month throughout the growing season.
- The information in these maps enables producers and scientists at Agriculture and Agri-Food Canada to better understand the local and regional effects of agroclimate conditions and identify emerging risks to the broader agricultural sector.
- Collect information on a variety of agricultural impacts, as well as weather and climate events, including drought.



AIR Data Collection Basics

Input

Input Method

Mediation

Final Output

Volunteer
Reporters

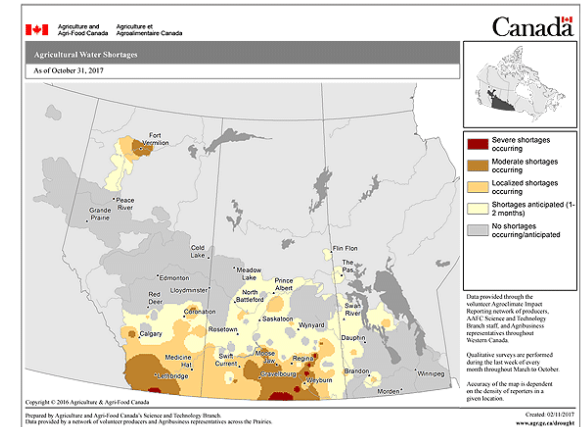
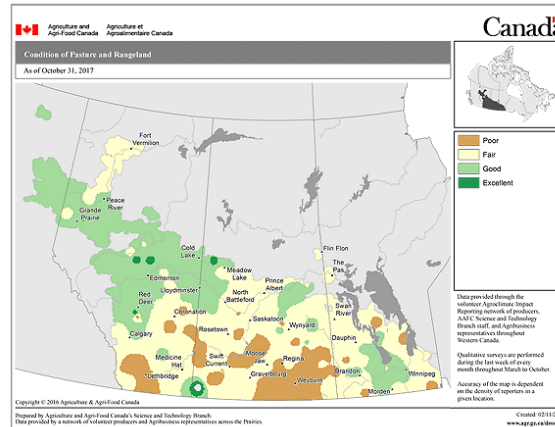
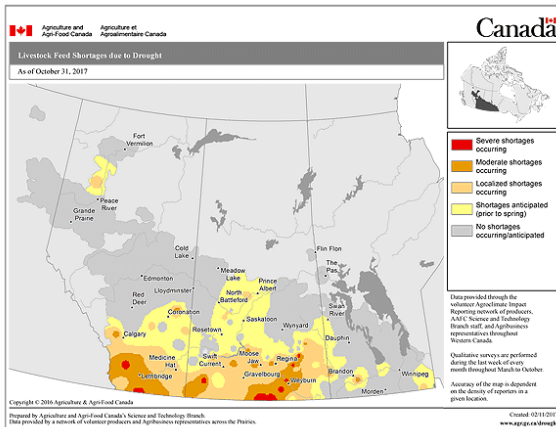
Reports

By NAIS

Surveys

Agroclimate
Impact
Reporter
Spatial
Database

Maps



An Update is Pending...

- In 2018 we will be updating the system to simplify the users experience and to make it more efficient for AAFC to administer.
- We will be utilizing the ESRI survey tool, Survey123

AIR Will Collect:

- Survey questions cover the impact of weather and climate on specific agricultural concerns:
 - Pasture/Rangeland Condition
 - Crop/Hay Quality
 - Groundwater Supply
 - Surface Water Supply
 - Water Quality
 - Crop Stage
 - Infrastructure Loss/Damage
 - Field Access
 - Feed Supply
 - Soil Erosion
 - Livestock Health



New Look and Feel

Immediate Benefits:

- More consistent questions month to month
- More visually appealing survey form
- Ability to download raw results, perform more complex spatial analysis, and create more maps
- Small learning curve for producers accustomed to the existing survey structure

May 25th: First AIR survey of 2018

Agroclimate Impact Reporter: Growing Season 2018

Welcome to the Agroclimate Impact Reporter Survey! In this form, you will be asked to provide information to the National Agroclimate Information Service (NAIS) at Agriculture and Agri-Food Canada related to the weather conditions you are experiencing and the impact it is having on your farm.

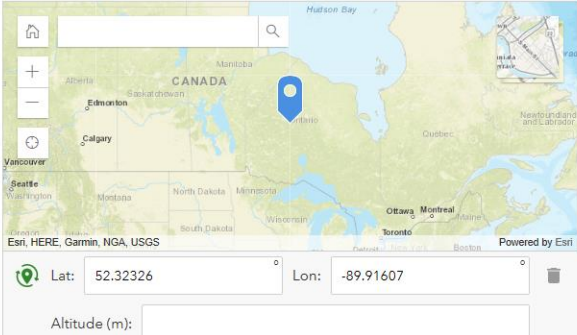
To complete this survey, follow the directions at each question. Those marked (Required) must be completed in order to submit the survey. Instructions and helpful hints are provided for each question.

Today's Date

2018-04-13

Using the map below, let us know where your farm is located. (Required)

Drag the map until the pin is over the approximate area of your farm. The house button at the side of the map will zoom all the way out. The plus and minus buttons will zoom in and out of the map. The crosshair button will automatically find your location based on your IP address. Please double check that the pin is placed correctly before moving to the next question.



The map interface displays a map of Canada with a blue location pin placed in the central region. The map includes various UI elements: a search bar at the top, zoom controls (plus, minus, and house icons) on the left, and a small inset map in the top right corner. Below the map, there are input fields for coordinates and altitude. The latitude is set to 52.32326 and the longitude to -89.91607. The altitude field is currently empty. The map is powered by Esri, HERE, Garmin, NGA, and USGS.

Lat: 52.32326 Lon: -89.91607

Altitude (m):